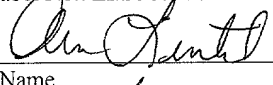


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Staszewski et al
 Anticipated Group Art Unit: not assigned
 Anticipated Examiner: not assigned
 Title: Transmit Filter

Honorable Commissioner of
 Patent and Trademarks
 Washington, D.C. 20231

Dear Sir:

<p>I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Post Office to Addressee service, in an envelope addressed to: Assistant Commissioner of Patents and Trademarks, Washington, D.C. 20231, on October 31, 2001</p> <p>Mailing Label No.: EK338727666US</p> <p></p> <p>Name _____</p> <p>10/31/01</p> <p>Date of Signature _____</p>
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PRELIMINARY AMENDMENT

Prior to examination of the accompanying patent, please enter the following amendments.

IN THE SPECIFICATION

Please replace paragraph [0071] with the following:

[0071] There are circumstances that may benefit from generating sample points on less than every CKR clock cycle. One situation would occur if the frequency of CKR is much greater than the baseband symbol clock, thereby causing the generation of excessive sample points. For example, if eights sample points per symbol are deemed sufficient, then, for a 1 MHz symbol clock, a CKR frequency on the order of 8 MHz would be appropriate. But, if the only available clock was 40 MHz, for example, it may be desirable to reduce the number of sample points 90 rather than generate nearly twice as many as necessary, which would cause excessive power consumption, particularly in the filter circuit 108.

In this case, logic could randomly select instances where a sample point would not be generated. In the above example, if four out of five potential sample points were not generated, the goal of 8 sample points per symbol would be accomplished. Every fifth sample point could be chosen for output; however, in some circumstances it may be beneficial to randomly choose sample points for generation, where one out of five would be chosen on average, which would reduce spurs on the RF output.

IN THE CLAIMS

Please replace the following claims:

1 (Amended). A transmit filter for generating an oversampled signal from a stream of data symbols generated responsive to a symbol clock, comprising:

circuitry for receiving the data symbol stream;
phase tracking circuitry, responsive to the a reference clock generated independently from the symbol clock, for maintaining phase information relative to the symbol clock; and
sample generating circuitry for generating samples responsive to said phase information.

8 (Amended). The transmit filter of claim 7 wherein said predetermined value is based on a ratio between a frequency associated with said symbol clock and a frequency associated with said reference clock.

18 (Amended). A method of generating an oversampled signal from a stream of data symbols generated responsive to a symbol clock, comprising the steps of:

receiving the data symbol stream;

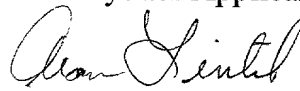
responsive to a reference clock generated independently from the symbol clock, for maintaining phase information relative to the symbol clock; and
generating samples responsive to said phase information and said reference clock.

25 (Amended). The method of claim 24 wherein said predetermined value is based on a ratio between a frequency associated with said symbol clock and a frequency associated with said reference clock.

REMARKS

The Commissioner is hereby authorized to charge any fees or credit any overpayment to Deposit Account No. 01-1615 of Anderson, Levine & Lintel, L.L.P.

Respectfully submitted,
ANDERSON, LEVINE & LINTEL, L.L.P
Attorneys for Applicant



Alan W. Lintel
Reg. No. 32,478

12160 Abrams Rd.
Suite 111
Dallas, Texas 75243-4523
(972) 664-9595
October 31, 2001

Version with Changes

In the Specification:

[0071] There are circumstances that may benefit from generating sample points on less than every CKR clock cycle. One situation would occur if the frequency of CKR is much greater than the baseband symbol clock, thereby causing the generation of excessive sample points. For example, if eight sample points per symbol are deemed sufficient, then, for a 1 MHz symbol clock, a CKR frequency on the order of 8 MHz would be appropriate. But, if the only available clock was 40 MHz, for example, it may be desirable to reduce the number of sample points to 8 rather than generate nearly twice as many as necessary, which would cause excessive power consumption, particularly in the filter circuit 108. In this case, logic could randomly select instances where a sample point would not be generated. In the above example, if four out of five potential sample points were not generated, the goal of 8 sample points per symbol would be accomplished. Every fifth sample point could be chosen for output; however, in some circumstances it may be beneficial to randomly choose sample points for generation, where one out of five would be chosen on average, which would reduce spurs on the RF output.

In the Claims:

1 (Amended). A transmit filter for generating [a] an oversampled signal from a stream of data symbols generated responsive to a symbol clock, comprising:

circuitry for receiving the data symbol stream;

phase tracking circuitry, responsive to a reference clock generated independently from the symbol clock, for maintaining phase information relative to the symbol clock; and

sample generating circuitry for generating samples responsive to said phase information.

8 (Amended). The transmit filter of claim 7 wherein said predetermined value is based on a ratio between a frequency associated with said symbol clock and a frequency associated with said reference clock.

18 (Amended). A method of generating [a] an oversampled signal from a stream of data symbols generated responsive to a symbol clock, comprising the steps of:

receiving the data symbol stream;
responsive to a reference clock generated independently from the symbol clock, for maintaining phase information relative to the symbol clock; and
generating samples responsive to said phase information and said reference clock.

25 (Amended). The method of claim 24 wherein said predetermined value is based on a ratio between a frequency associated with said symbol clock and a frequency associated with said reference clock.